

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01H85/046 H01H85/042 H01H85/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3 041 428 A (ALEXIS SOMMERS) 26 June 1962 (1962-06-26) the whole document ---	1-5, 11, 21; 22
Y	US 6 002 564 A (OHTSUCHI MASASHI) 14 December 1999 (1999-12-14) the whole document ---	1-5
Y	US 3 585 556 A (HINGORANY ASHOK R ET AL) 15 June 1971 (1971-06-15) the whole document ---	1-5, 11, 21, 22
A	US 3 523 264 A (FEENAN JOHN ET AL) 4 August 1970 (1970-08-04) the whole document ---	18
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X Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

20 January 2004

Date of mailing of the international search report

29/01/2004

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/PL 03/00092

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 624 580 A (ELLIOTT WILLIAM JAMES) 30 November 1971 (1971-11-30) the whole document -----	24

INTERNATIONAL SEARCH REPORT

International Application No

PCT/PL 03/00092

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3041428	A	26-06-1962	NONE	
US 6002564	A	14-12-1999	JP 10228856 A	25-08-1998
US 3585556	A	15-06-1971	NONE	
US 3523264	A	04-08-1970	ES 352151 A1	16-06-1969
US 3624580	A	30-11-1971	CH 501995 A	15-01-1971
			DE 2008453 A1	18-03-1971
			FR 2034590 A5	11-12-1970
			GB 1232913 A	26-05-1971